

spreading code by the second spreading codes in parallel at a plurality of peak positions of a correlation between the received spread modulation signal and the first spreading code, thereby improving a detection accuracy of the spreading code synchronization, wherein said peak positions are due to multipaths.

23. The spreading code synchronization method as claimed in claim 20, wherein the correlation detection between said first spreading code and said received spread modulation signal, and the correlation detection between said received spread modulation signal and said codes obtained by multiplying said second spreading codes by the first spreading code are performed in parallel.

24. The spreading code synchronization method as claimed in claim 20, wherein when detecting the second spreading code synchronized phase of contiguous base stations using correlation values between the first spreading code and the received spread modulation signal in a contiguous base station search mode of deciding a base station to be connected at handover during communications, phases except for a synchronized phase of a current base station are selected as synchronized phase candidates of the contiguous base stations to be decided.

25. The spreading code synchronization method as claimed in claim 20, wherein a phase of the received second spreading code is uniquely decided in accordance with a received timing of said unevenly disposed mask symbols when receiving the signal.

26. The spreading code synchronization method as claimed in claim 20, wherein when there is deviation between clocks of a transmitter and a receiver, correlations are obtained in parallel using a plurality of correlators whose phases are shifted from one another by an amount of Δ which corresponds to aT_c , where a is a real number and T_c is a chip period, while performing correlation detection between the received spread modulation signal and the codes obtained by multiplying the first spreading code by the second spreading code in the second spreading code group.

27. The spreading code synchronization method as claimed in claim 10, wherein the correlation detection between said first spreading code and said received spread modulation signal, and the correlation detection between said received spread modulation signal and said codes obtained by multiplying said second spreading codes by the first spreading code are performed in parallel.

28. The spreading code synchronization method as claimed in claim 11, wherein the correlation detection between said first spreading code and said received spread modulation signal, and the correlation detection between said received spread modulation signal and said codes obtained by multiplying said second spreading codes by the first spreading code are performed in parallel.

29. The spreading code synchronization method as claimed in claim 10, wherein when detecting the second spreading code synchronized phase of contiguous base stations using correlation values between the first spreading code and the received spread modulation signal in a contiguous base station search mode of deciding a base station to be connected at handover during communications, phases different from a synchronized phase of a current base station are selected as candidates of synchronized phases of the contiguous base stations to be decided.

30. The spreading code synchronization method as claimed in claim 11, wherein when detecting the second spreading code synchronized phase of contiguous base stations using correlation values between the first spreading code and the received spread modulation signal in a contiguous base station search mode of deciding a base station to be connected at handover during communications, phases different from a synchronized phase of a current base station are selected as candidates of synchronized phases of the contiguous base stations to be decided.

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